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PL PT RO RS SE SI SK SM TR(72) Inventors:
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Leeds LS11 9DX (GB)(62) Document number(s) of the earlier application(s) in
accordance with Art. 76 EPC:
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(54) EMBOLIC FILTER SYSTEM

(57) Various aspects of the present disclosure are directed toward an embolic filter system. The embolic filter system generally includes a filter and an elongated element. In some examples, the elongate element extends to a position distal to a proximal end of the filter and operates to protect against medical devices entangling

with the filter. In some examples, the elongate element is soft and compliant and operates with a hemostatic seal to provide for a hemostatic seal within a lumen of the elongate element while maintaining the lumen as a working lumen through which medical devices can be passed.

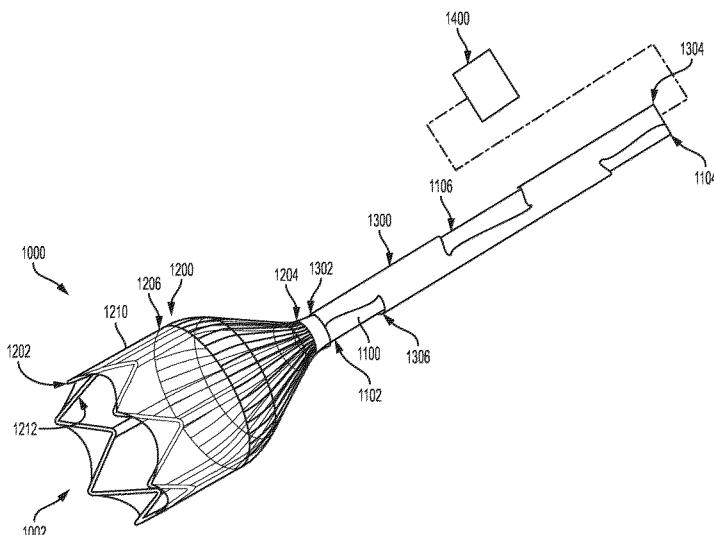


FIG. 1A



EUROPEAN SEARCH REPORT

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DOCUMENTS CONSIDERED TO BE RELEVANT				
	Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
10	X	US 2013/096606 A1 (BRUCHMAN WILLIAM C [US] ET AL) 18 April 2013 (2013-04-18) * paragraphs [0035] - [0037], [0039], [0041], [0043], [0044], [0053] - [0055]; figures *	1 - 3	INV. A61F2/01 A61B17/221
15	X	----- US 2011/137399 A1 (CHOMAS JAMES E [US] ET AL) 9 June 2011 (2011-06-09) * paragraphs [0061], [0072], [0073]; figures *	1 - 3	
20	A	----- US 2002/161394 A1 (MACOVIACK JOHN A [US] ET AL) 31 October 2002 (2002-10-31) * paragraphs [0044], [0046], [0083], [0092], [0103]; figures *	1 - 3	
25	X	----- US 2005/187570 A1 (NGUYEN ERIC [US] ET AL) 25 August 2005 (2005-08-25) * paragraphs [0031] - [0034], [0040]; figures *	4, 5, 7	
30	X	----- US 2004/006367 A1 (JOHNSON KRIK [US] ET AL) 8 January 2004 (2004-01-08) * paragraphs [0033], [0037]; figures *	4, 6, 7	TECHNICAL FIELDS SEARCHED (IPC) A61F A61B
35	X	----- US 2005/096691 A1 (GROOTHUIS ADAM [US] ET AL) 5 May 2005 (2005-05-05) * paragraph [0038]; figures *	4, 7	
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50	2	The present search report has been drawn up for all claims		
55	2	Place of search The Hague	Date of completion of the search 21 January 2025	Examiner Neumann, Elisabeth
CATEGORY OF CITED DOCUMENTS		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document		
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document				



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CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing claims for which payment was due.

10 Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due and for those claims for which claims fees have been paid, namely claim(s):

15 No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due.

LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

30 see sheet B

35 All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.

40 As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.

45 Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:

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50 None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:

55 The present supplementary European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims (Rule 164 (1) EPC).



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**LACK OF UNITY OF INVENTION
SHEET B**Application Number
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The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

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1. claims: 1-3

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An embolic filter system comprising an elongate element including a first structural element and a covering material; and a filter portion including a second structural element and a covering material with perforations.

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2. claims: 4-7

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An embolic filter comprising a filter assembly having two ends and an elongated intermediate portion; and a removable structural element. The filter assembly comprising an expandable filter element having an expandable frame and a filter material.

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3. claims: 8-10

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An endoprosthesis delivery device comprising an expandable filter element mounted on a catheter shaft, an elongated conduit configured to extend through and beyond the expandable filter element when the expandable filter element is deployed at a treatment site; and wherein the elongated conduit includes at least one aperture through a side wall providing fluid communication between the capture area and an interior of the elongated conduit.

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**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on. The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

21-01-2025

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